

WHAT IS CLAIMED IS:

1. A method of manufacturing an optical head comprising an integrated unit in which a light source and a light emitting diode are
5 combined into one component, an objective lens actuator for maintaining an objective lens as a means of focusing light onto a disk information recording medium and actuating the objective lens in a focus direction and a radial direction of the disk information recording medium, and an optical bench for maintaining the integrated unit and the objective lens actuator, the method
10 comprising:
fixing the integrated unit to the optical bench; and then
carrying out relative position adjustment of the objective lens actuator with respect to the optical bench or the integrated unit so that a desired detection signal can be obtained through reflected light from the disk
15 information recording medium.
2. The method of manufacturing an optical head according to claim 1, wherein the relative position adjustment of the objective lens actuator comprises position adjustment in a plane approximately orthogonal to an
20 axis of light entering the objective lens.
3. The method of manufacturing an optical head according to claim 1, wherein the relative position adjustment of the objective lens actuator comprises position adjustment in the radial direction and/or a tangential
25 direction of the disk information recording medium.
4. The method of manufacturing an optical head according to claim 1, wherein the relative position adjustment of the objective lens actuator comprises skew adjustment of the objective lens actuator for adjusting a
30 relative angle between the disk information recording medium and the objective lens.
5. The method of manufacturing an optical head according to claim 1, wherein the relative position adjustment of the objective lens actuator
35 comprises position adjustment of the objective lens actuator in a direction of an axis of light entering the objective lens.

6. The method of manufacturing an optical head according to claim 1, wherein the optical head further comprises a mirror positioned between the light source and the objective lens actuator, and
- 5 after fixing the integrated unit to the optical bench, relative position adjustment of the mirror is carried out with respect to the optical bench or the integrated unit so that a desired detection signal can be obtained through reflected light from the disk information recording medium.
- 10 7. The method of manufacturing an optical head according to claim 6, wherein the relative position adjustment of the mirror comprises angle adjustment of an axis of reflected light from the mirror.
8. The method of manufacturing an optical head according to claim 1,
- 15 wherein the relative position adjustment of the objective lens actuator comprises adjustment by rotating the objective lens actuator about an approximate center of the objective lens in a plane approximately orthogonal to an axis of light entering the objective lens.
- 20 9. The method of manufacturing an optical head according to claim 1, wherein the objective lens is adjusted by being rotated about an approximate center of the objective lens in a plane approximately orthogonal to an axis of light entering the objective lens.